Engineering Process Improvement

Component Technical Issues Working Group

LOCKHEED MARTIN

Aegis Production Program Office
MS2 – Moorestown NJ
April 29, 2008 @ LMI for PSMC

Engineering Process Improvement (EPI)

- **Engineering Process Improvement Center (EPIC)**
  - **Corporate Funded and Supported**
    - **Located in Camden NJ**
  - **Coordination of Engineering Improvement activities across all Lockheed Martin Businesses**
    - **Monthly Newsletter**
    - **Email Forums**
      - *Systems, Software, Electrical, Mechanical, Project Management, and other Focus/Working & Process Groups*
        - » *PWB/CCA, Design for Six Sigma, Supportability, & Component Technology*

Engineering Process Improvement (EPI)

- **Component Technology Issues – Working Group (CTI-WG)**
  - **Formed under the Electric Subcouncil (2001)**
    - **EPI Facilitator – Bill Dreisbach, Cherry Hill NJ**
    - **Leader – Ron Watson, MS2 Baltimore, MD**
    - **Focus and prioritize component issues**
      - *Parts Management*
      - *Obsolescence Risk Management*
      - *Technology Refresh Prediction*
      - *Technology Roadmapping*
      - *Tools & Services Evaluation*

Lockheed Martin EPI Developed Plans

- **LM EPI Developed Plans**
  - **Parts Management Plan Guideline**
    - **Complies with EIA 4899 and others**
  - **Obsolescence Management Plan Guideline**
    - ***Supporting Lockheed Martian business needs***
      - Defense MicroElectronic Activity (DMEA)
        - » Contractual Requirements
      - EIA – Bulletin GEB1 DMSMS Management Practices
        - » Entry Level Management Practices

PMPG Purpose

- ***PMPG Purpose***
  - ***To standardize part management plans across Lockheed Martin companies***
    - ***Terms & Definitions***
      - CTI-WG Lexicon
    - ***General Component Application***
    - ***Qualification Requirements***
    - ***Component Data Control***

PMPG Purpose

- ***Improve risk Mitigation and Management***
  - ***Component Reliability and Dependability***
  - ***Component Obsolescence Management***
- ***Leverage resources across Lockheed Martin companies***
  - ***EPIC***

Obsolescence Management Plan Guidelines Purpose

- ***OMPG Purpose***
  - ***To standardize obsolescence management processes across Lockheed Martin companies***
    - ***Terms & Definitions***
      - CTI-WG Lexicon
    - ***Responsibilities***
  - ***Approach to Obsolescence Solutions***
    - ***Tool, service, and applications***
- ***Leverage resources across Lockheed Martin companies***
  - ***EPIC***